



## **Increment 23/24 CRR-HMS**

## **Medical Operations**

Presenter

**SD230A/Linda Nieschwitz**

Date

**February 4, 2010**

# **Increment 23/24 Critical Readiness Review Health Maintenance System**



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### **Updates**

- **CMRS now has an empty CEVIS Isolator Kit underneath it to provide stability for compressions. Inc 19/20 FE1 reported instability in the CMRS when compressions are performed. After reviewing a video of test compressions performed by Inc 19/20 FE1, engineering determined that the motion was normal and that the CMRS is in a good configuration with or without the CEVIS Isolator Kit underneath.**
- **An issue with the ground Training unit Eyewash was identified in which the hoses can come loose from the metal barbs on the goggle lenses. To prevent this from happening on orbit, hose clamps were flown on 17A (Aug 2009) and were applied to the hoses by the crew during Inc 22. For future units, engineering will take care of this before they are flown.**
- **An OCAD was recently submitted by Safety due to the fact that the RSP can create a localized elevated oxygen bubble which can create a hazardous atmosphere (makes electronics around it more combustible). The control for this hazard is to deploy the Portable Fan Assembly (PFA) at the foot of the patient on the CMRS which will diffuse the bubble. The crew is instructed to do this during training. In addition, the Med Contingency Drill procedure will be updated to contain a step directing the crew to deploy the fan. There may be a flight rule update to address this as well.**



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## Backup Slides

### •CMRS

#### •Brief overview of current hardware status –

- Flight Rule B13-117 documents the 3 acceptable deployment locations (LAB1D5, COL1D3, & COL1D4).
- The COL locations are for temporary deployment for Payload or Contingency Ultrasound activities.

#### •Any timeline changes/IDRD requirement changes

- No Changes, Checkout required for CMO rotation (30 minute activity)

#### •No manifest or IFMs

- Cracks inspected during the checkout activity
- No scheduled resupply

#### •Hardware Interfaces

- Interfaces with USOS ISS seat tracks via the seat track interfaces. Seat track interfaces are not compatible with the Shuttle.





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## •RSP

- S/N 1002 flew on ULF2 (Nov 2008) and was checked out during docked ops.
- Checkout Procedure has been updated.
- Nominal resupply is every 2 years or at first available opportunity if used.
- Checkout is required with every CMO rotation (15 minute activity).
- RSP – Cue Card and a Picture Cue Card are located inside the RSP.
- CHeCS O2 source is now located at LAB1PD4.







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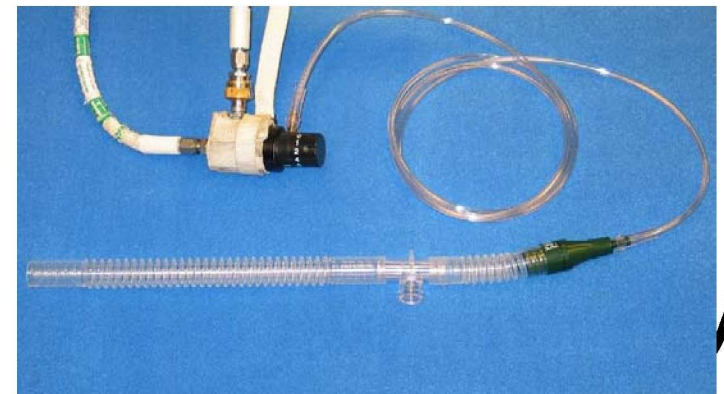
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### Variable Oxygen System

- Hardware flew on 18P (June 2005)
- Will be resupplied only if used
- Cue Card flew on ULF1.1 (July 2006) with Russian on back
- Interfaces with RSP as seen in photos
- Procedures:
  - Set Up Cue Card is located in the Med C/L
  - Weaning protocol will be ground Surgeon procedure





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### •CCPK

#### •New unit delivered by 29P (May 2008)

##### –Updates include

- »Nitrile gloves instead of latex (should not be folded)
- »Dust masks instead of Surgical masks
- »Extra Mess up mitts instead of biowipe bags

##### –New Eyewash design deployed in SM (front of panel 329) in own Nomex kit

- »Op nom: Eyewash Kit
- »Will contain Eyewash and Eyewash Wastewater Bags

•CCPK is resupplied every 2 years unless supplies are deemed inadequate. No in-flight maintenance is required. Used components will be replaced as needed (i.e. Nitrile gloves, Dust masks, etc.)

•Procedures that utilize the CCPK or the Eyewash reside in the Medical Checklist or the EMER book.

